

P27191.A05



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Docket No.: P27191

Douglas D. COOLBAUGH et al.

Confirmation No. 1904

Serial No.: 10/707,905

Group Art Unit: No. 2811

Filed: January 23, 2004

Examiner: Shouxiang Hu

**For: STRUCTURE AND METHOD FOR HYPER-ABRUPT JUNCTION VARACTORS**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Window, Mail Stop AF  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

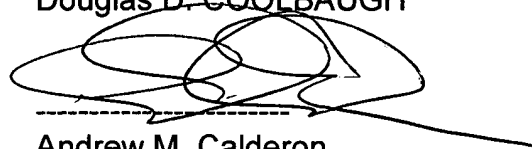
Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicant's duty of disclosure under 37 CFR §1.56, applicant respectfully brings the following documents, listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Applicant respectfully requests that the Examiner consider the materials cited and indicate such consideration by appropriately initialing the enclosed PTO-1449 Form and including a copy of the initialed form in the next official communication.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

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It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Respectfully submitted,  
Douglas D. COOLBAUGH

A handwritten signature in black ink, appearing to read 'Andrew M. Calderon', is written over a horizontal dashed line.

Andrew M. Calderon  
Registration No.38,093

November 29, 2005  
GREENBLUM & BERNSTEIN, P.L.C.  
1950 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
BUR920030177US1Application No.  
10/707,905INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

Applicant  
Douglas D. COOLBAUGH, et al.Filing Date  
January 23, 2004Group  
2811

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 5 2 1 5 0 6	02/18/03	COOLBAUGH et al.			
	6 0 1 4 0 6 4	01/11/00	BOLES et al.			
	4 5 9 0 4 3 9	05/20/86	GOGGIN			
	3 6 3 8 3 0 0	02/01/72	FOXHALL et al.			
	4 6 4 2 5 8 0	02/10/87	SCOTT			
	4 6 6 8 3 0 6	05/26/87	NISHIZAWA			
	6 5 5 9 0 2 4	05/06/03	BOLES et al.			
	6 5 2 1 9 3 9	02/18/03	YEO et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
63 - 3 0 0 5 7 0	12/07/88	JAPAN			Abstract
64 - 1 9 7 7 9	01/23/89	JAPAN			X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	An Article of VELLANKI et al., entitled: "Highly Conductive n+ Layers in InP:Fe Created by MeV Energy Si, S, and Si/S Implantation for Application to Microwave Devices", Journal of Electronic Materials, Vol. 22, No. 1, 1993, pp. 73-80

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.